

MSMG TOOLKIT

DOCUMENTATION

INTRODUCTION

The MSMG ToolKit was developed with a desperate need to have a single Toolkit to fulfill all the needs of a Technician for the Deployment of Microsoft Windows Operating Systems.

MSMG ToolKit is Basically a Windows NT Command Batch Script specifically written to Service, Add or Remove Features and Components, Enable or Disable Features, Customize Features to Windows Installation Image.

The MSMG ToolKit uses the Microsoft Windows DISM Component, Windows Assessment and Deployment Kit Tools (WADK) and various other 3rd party Tools to perform its operations.

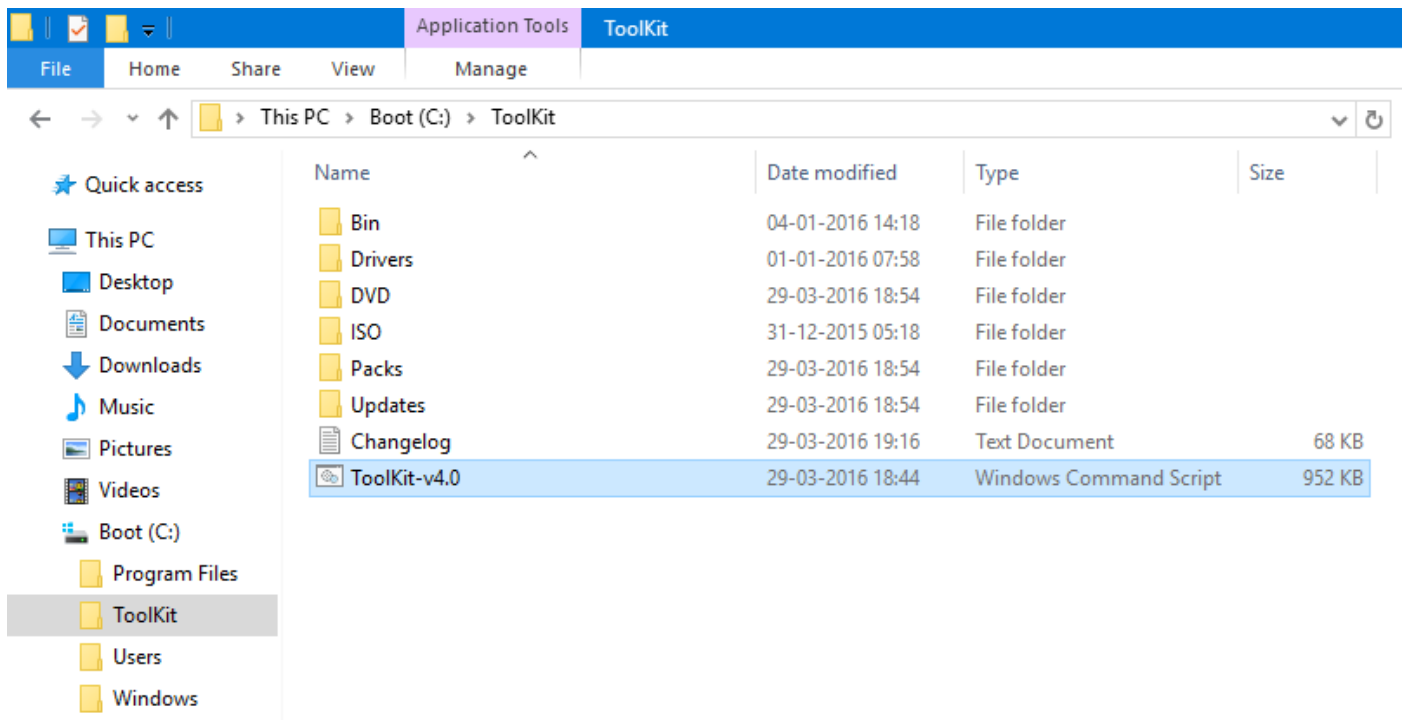
The MSMG ToolKit is intended to be used with Licensed Microsoft Windows Operating System only.

I don't take any responsibility for any kind of damages, errors, bugs or data loss caused by using this program. Use this Toolkit at your own risk.

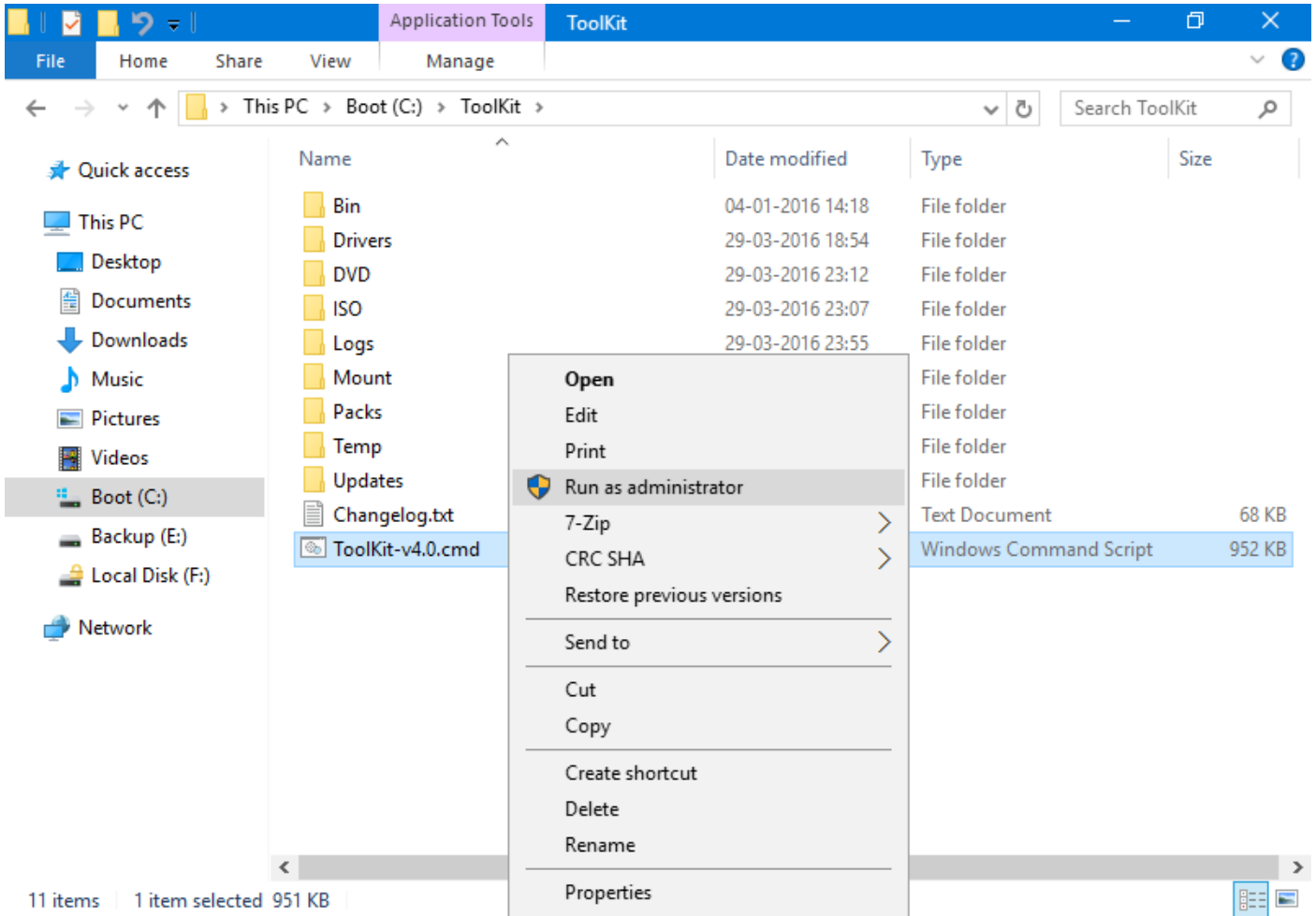
MSMG ToolKit, Microsoft Windows, 7-zip.exe, EsdDecrypt.exe, ResourceHacker.exe, SetACL.exe, are Registered Trademarks or Works of their respective Companies or Authors.

TOOLKIT STARTUP

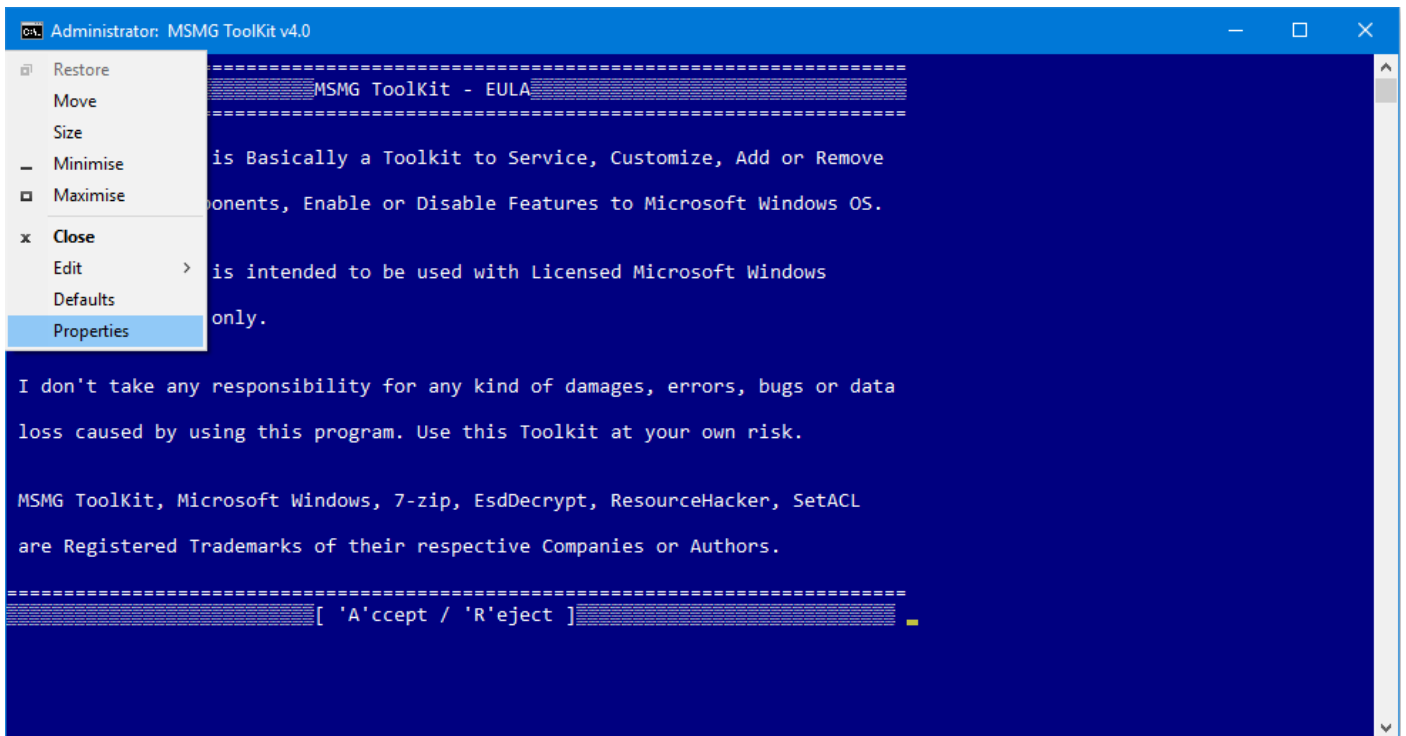
- Download and Extract The MSMG ToolKit Archive File to any Folder, E.g. (C:\ToolKit).



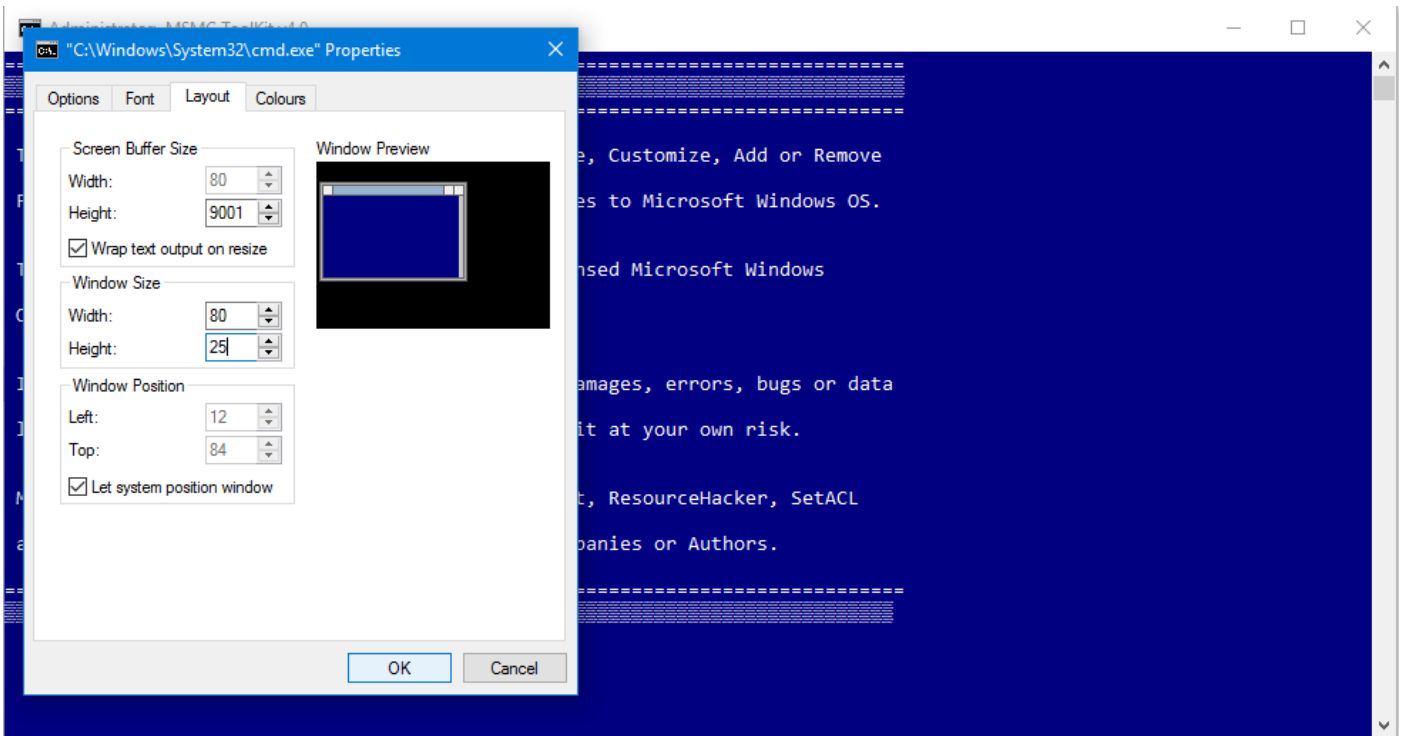
- Right-Click on **ToolKit-vx.x.cmd** Script file and choose Run as Administrator.



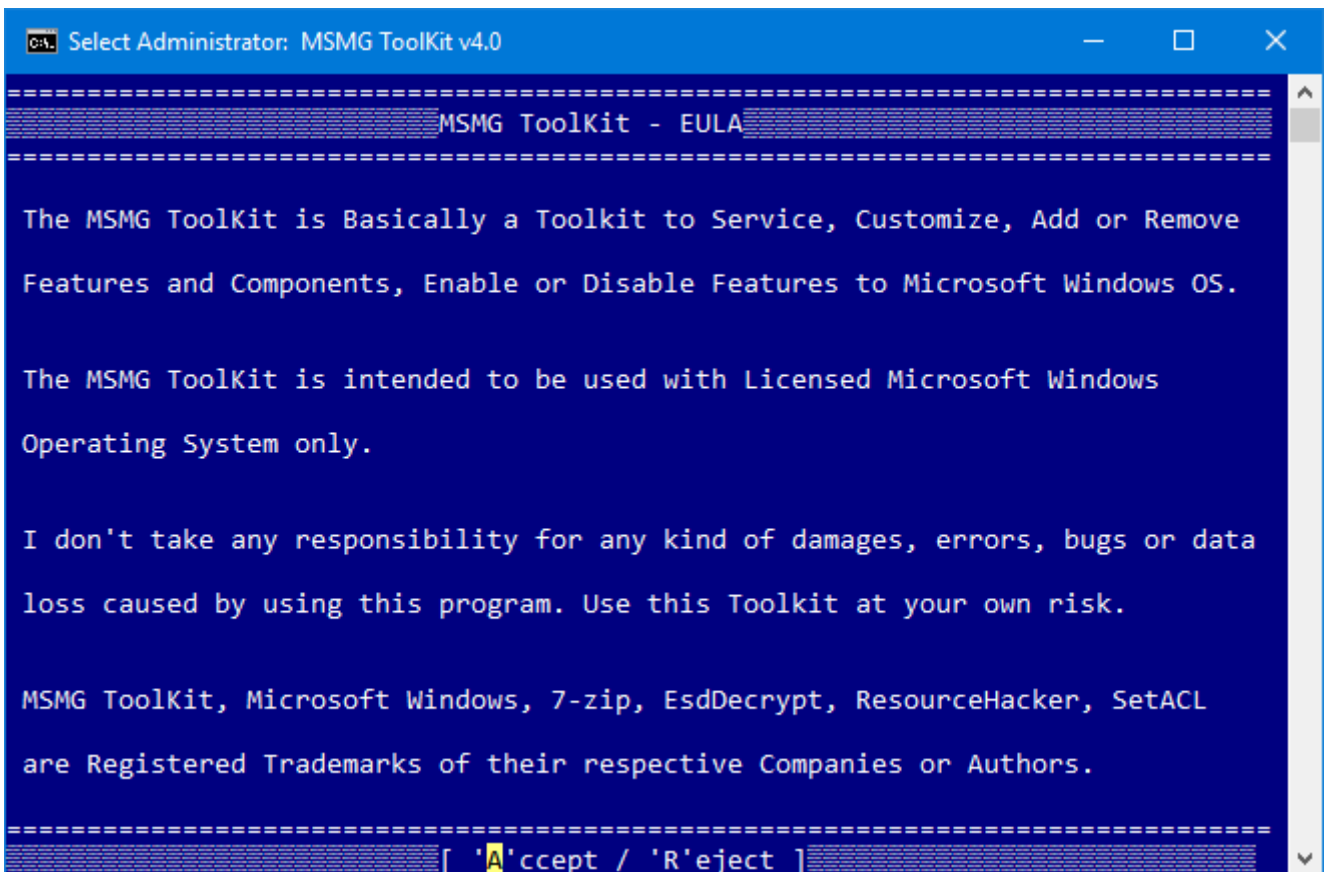
- Choose Properties from ToolKit's DOS Window System Menu.



- Change to Layout Tab and Set the Windows Size as Width: 80, Height: 25 and Click OK.



- The ToolKit will show the EULA, Press 'A' to Accept ToolKit's EULA and Continue.



- The ToolKit will show the Startup Settings, Press Enter to Continue.

MSMG ToolKit - StartUp Settings

Retrieving Host OS Information...

- Microsoft Windows 10 (x86) [en-GB]

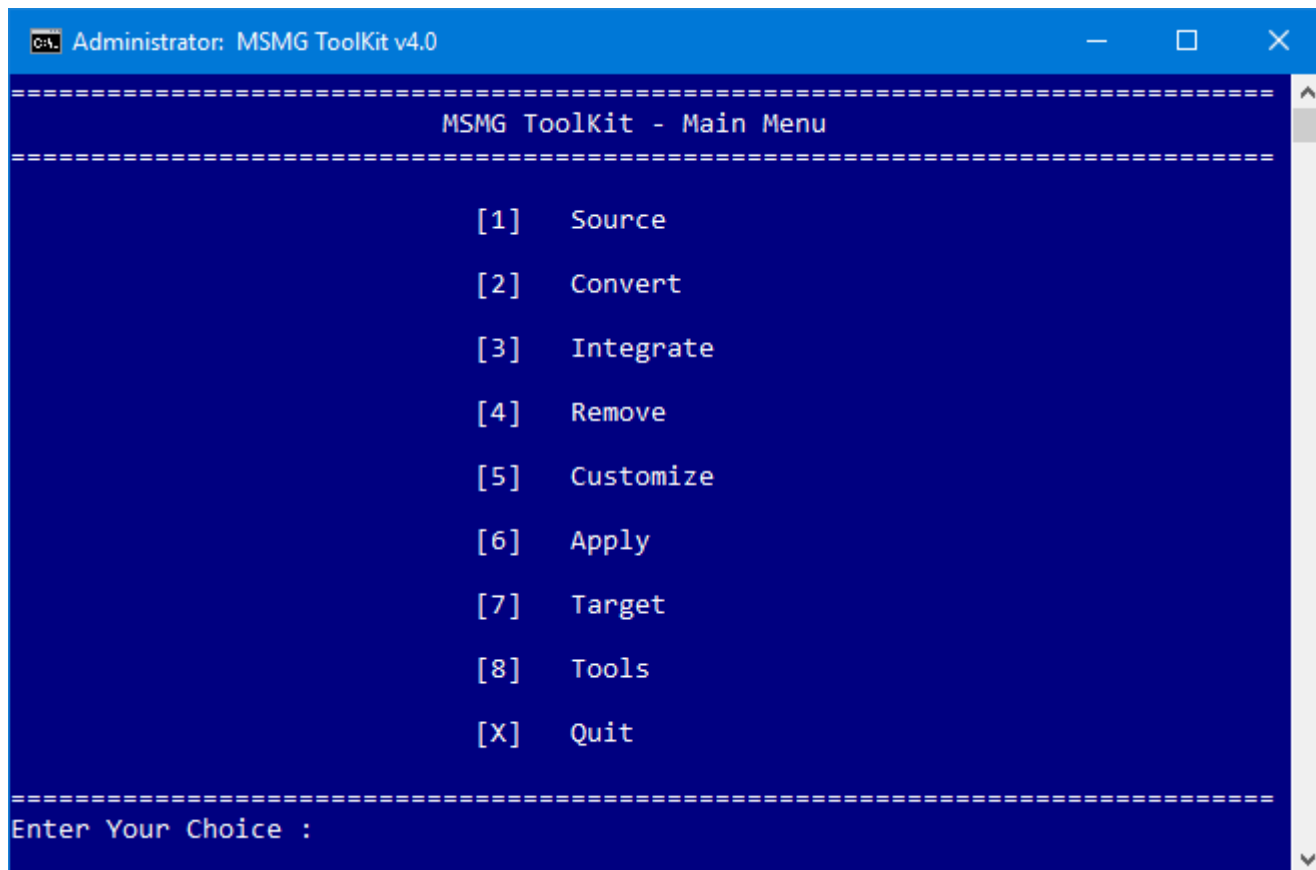
Setting ToolKit & WADK Tools Environment Variables...

DISM.exe	=	C:\ToolKit\Bin\x86\DISM10\Dism.exe
Imagex.exe	=	C:\ToolKit\Bin\x86\imagex.exe
Oscdimg.exe	=	C:\ToolKit\Bin\x86\oscdimg.exe
Dvdburn.exe	=	C:\ToolKit\Bin\dvdburn.exe
7zip.exe	=	C:\ToolKit\Bin\x86\7z.exe
EsdDecrypt.exe	=	C:\ToolKit\Bin\esddecrypt.exe
ResourceHacker.exe	=	C:\ToolKit\Bin\ResourceHacker.exe
SetACL.exe	=	C:\ToolKit\Bin\x86\SetACL.exe

Press **ENTER** Key to Continue...

TOOLKIT MODULES

The MSMG ToolKit is divided into various Modules to make the user experience easier and productive.



Source – This Module allows the user to Select and Mount the required Windows Installation Image to be serviced.

Convert – This Modules allows the user to Convert Windows Installation Image Edition.

Integrate – This Module allows the user to Integrate Language Packs, Windows Updates, Windows Device Drivers, Windows Features, Windows Custom Features to Windows Installation Image.

Remove – This Module allows the user to Remove Windows Components from Windows Installation Image.

Customize – This Module allows the user to Customize the Windows Components and Features inside the Windows Installation Image.

Apply – This Module allows the user to Apply the changes made and Un-Mount the Windows

Installation Image to be Deployed.

Target – This Module allows the user to create Windows Installation Image Deployment Media in the form of Bootable DVD, USB Stick for Deployment.

Tools – This Module provides various utilities like WIM Manager, ToolKit Debugging Information Viewer, ToolKit Settings.

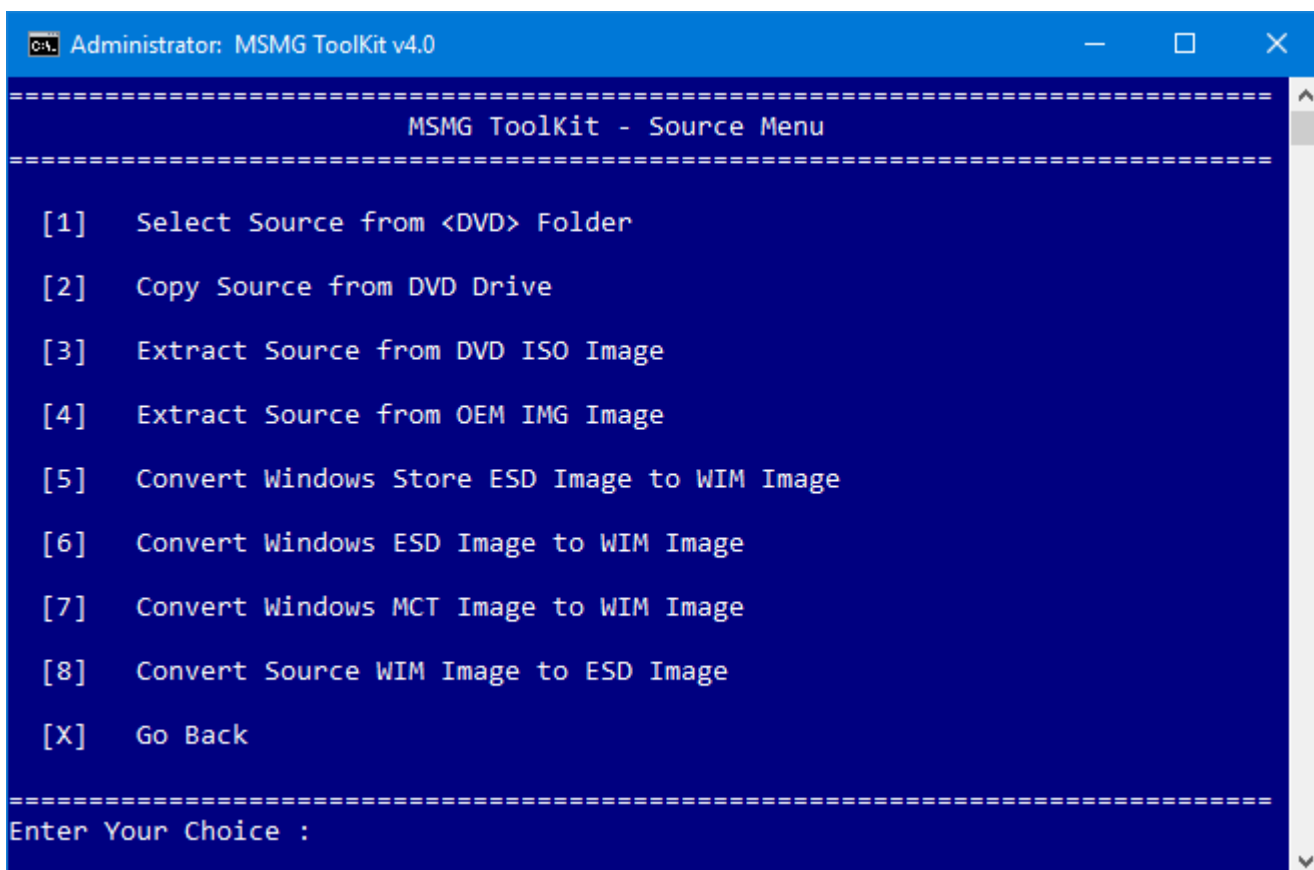
SOURCE MODULE

The Windows Installation Image Files comes in various Formats like DVD Disc, DVD ISO Image, Windows OEM IMG Image, Windows Store ESD Image, Microsoft Media Created (MCT) Image, Windows ESD Image.

The ToolKit requires the Windows Installation Image Files in a WIM Image Format to be present in the Toolkit's <DVD> Folder for servicing.

In order to Service a Windows Installation Image for Deployment, the User first needs to Mount the Windows Installation Image.

The Source Module provides various options to choose the Source of Windows Installation Image Files for servicing.



```
Administrator: MSMG Toolkit v4.0
=====
MSMG Toolkit - Source Menu
=====

[1]  Select Source from <DVD> Folder
[2]  Copy Source from DVD Drive
[3]  Extract Source from DVD ISO Image
[4]  Extract Source from OEM IMG Image
[5]  Convert Windows Store ESD Image to WIM Image
[6]  Convert Windows ESD Image to WIM Image
[7]  Convert Windows MCT Image to WIM Image
[8]  Convert Source WIM Image to ESD Image
[X]  Go Back

=====
Enter Your Choice :
```

Select Source from DVD Folder – This Module allows the user to Select and Mount the required Windows Installation Image from Toolkit's Source <DVD> Folder for servicing.

Copy Source from DVD Drive – This Module allows the user to Copy the Contents of Windows Installation DVD Disc from DVD Drive to Toolkit's Source <DVD> Folder for servicing.

Extract Source from DVD ISO Image – This Module allows the user to Extract the Contents of Microsoft Windows Installation DVD ISO Image File to Toolkit's Source <DVD> Folder for servicing.

Extract Source from OEM IMG Image – This Module allows the user to Extract the Contents of Microsoft Windows Installation OEM IMG Image File to Toolkit's Source <DVD> Folder for servicing.

Convert Windows Store ESD Image to WIM Image – This Module allows the user to Convert a Windows Store ESD Image to WIM Image for servicing.

Convert Windows MCT Image to WIM Image – This Module allows the user to Convert a Microsoft Creation Tool created Windows Image to WIM Image for servicing.

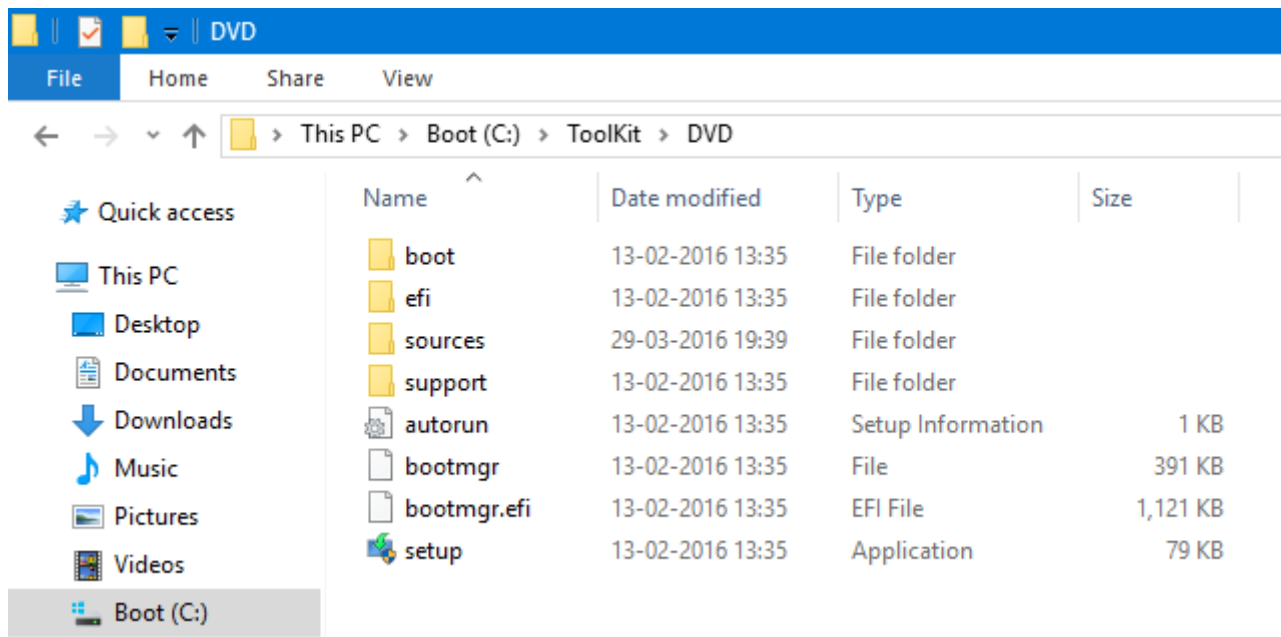
Convert Windows ESD Image to WIM Image – This Module allows the user to Convert a Microsoft Windows Installation Image in ESD format to WIM Image Format for servicing.

Convert Source WIM Image to ESD Image – This Module allows the user to Convert a Microsoft Windows Installation Image in WIM format to ESD Image Format.

Select Source from <DVD> Folder

This Module allows the user to Select and Mount the required Windows Installation Image from ToolKit's Source <DVD> Folder for servicing.

- Copy the contents of the Windows Installation Image Files to ToolKit Source <DVD> Folder.



- Select Source from ToolKit's Main Menu and then Choose Select Source from <DVD> Folder Menu.

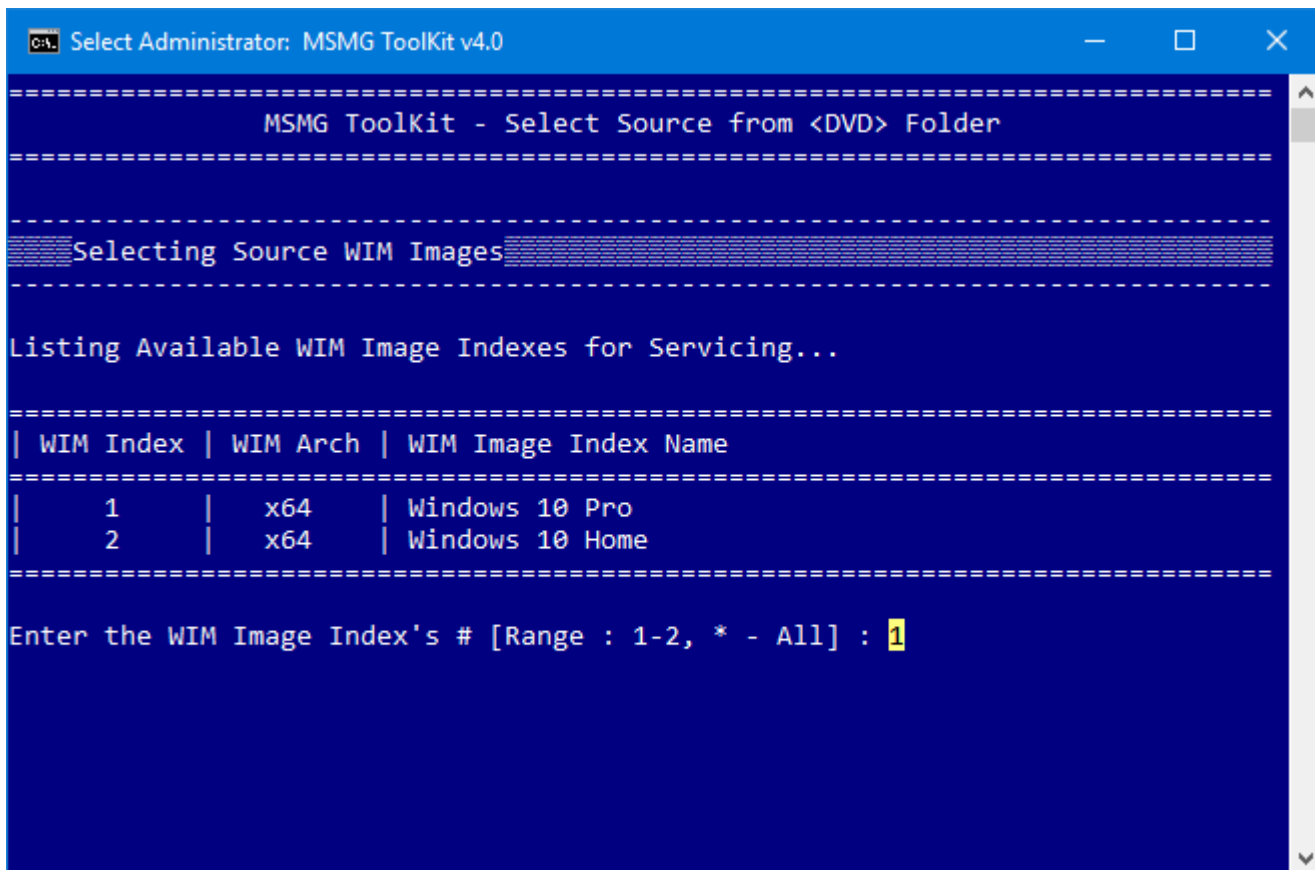
=====
MSMG ToolKit - Source Menu
=====

- [1] Select Source from <DVD> Folder
- [2] Copy Source from DVD Drive
- [3] Extract Source from DVD ISO Image
- [4] Extract Source from OEM IMG Image
- [5] Convert Windows Store ESD Image to WIM Image
- [6] Convert Windows ESD Image to WIM Image
- [7] Convert Windows MCT Image to WIM Image
- [8] Convert Source WIM Image to ESD Image
- [X] Go Back

=====
Enter Your Choice :

Selecting a Single WIM Image Index for Servicing

- Choose the desired Windows Installation WIM Image Index to be serviced by entering the WIM Image Index No as shown in the below picture.



```
Select Administrator: MSMG ToolKit v4.0
MSMG ToolKit - Select Source from <DVD> Folder
Selecting Source WIM Images
Listing Available WIM Image Indexes for Servicing...
=====
| WIM Index | WIM Arch | WIM Image Index Name
=====
| 1         | x64     | Windows 10 Pro
| 2         | x64     | Windows 10 Home
=====
Enter the WIM Image Index's # [Range : 1-2, * - All] : 1
```

- The ToolKit Displays the WIM Image Information and Starts Mounting the Selected Windows Installation WIM Image Index along with its Windows Installation Boot WIM Image (Indexes: 1 & 2) and Windows Installation Recovery WIM Image (Index 1).

```
Administrator: MSMG ToolKit v4.0
=====
MSMG ToolKit - Select Source from <DVD> Folder
=====
-----
Selecting Source WIM Images
-----
-----
Listing Available WIM Image Indexes for Servicing...
-----
| WIM Index | WIM Arch | WIM Image Index Name
-----
| 1         | x64      | Windows 10 Pro
| 2         | x64      | Windows 10 Home
-----
Enter the WIM Image Index's # [Range : 1-2, * - All] : 1
-----
-----
Selected Source WIM Image Information
-----
-----
WIM Image           : Install.wim
WIM Image Index No  : 1
WIM Image Name      : Windows 10 Pro
WIM Image Description : Windows 10 Pro
WIM Image Architecture : x64
WIM Image Version   : 10.0.10586
WIM Image Service Pack Build : 0
WIM Image Edition   : Professional
WIM Image Install Type : Client
WIM Image Default Language : en-GB
-----
-----
Mounting Source WIM Images
-----
-----
Mounting [Boot.wim, Index : 1] WIM Image at <\Mount\Boot\1>...
-----
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Mounting image
[=====100.0%=====]
The operation completed successfully.

-----
Mounting [Boot.wim, Index : 2] WIM Image at <\Mount\Boot\2>...
-----
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Mounting image
[=====100.0%=====]
The operation completed successfully.

-----
Mounting [Install.wim, Index : 1] WIM Image at <\Mount\Install>...
-----
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Mounting image
[=====100.0%=====]
The operation completed successfully.

-----
Mounting [WinRE.wim, Index : 1] WIM Image at <\Mount\WinRE>...
-----
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

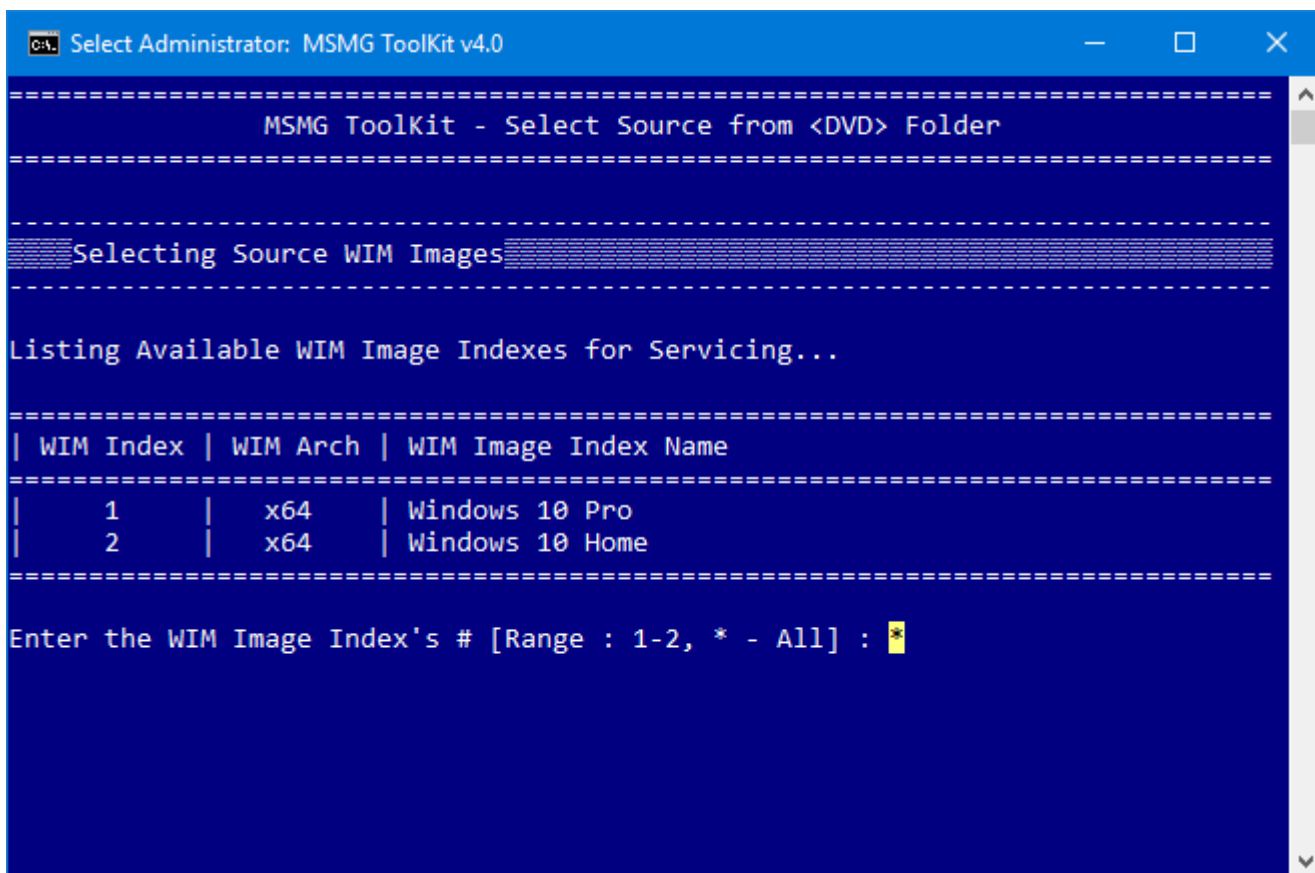
Mounting image
[=====100.0%=====]
The operation completed successfully.

-----
-----
Finished Selecting & Mounting Source WIM Images
-----
-----
Press any key to continue . . .
```

■ Press any Key to Continue further.

Selecting All WIM Image Indexes for Servicing

- Enter '*' for Servicing all the WIM Image Indexes present in the WIM Image File.



```
=====  
MSMG ToolKit - Select Source from <DVD> Folder  
=====  
Selecting Source WIM Images  
=====  
Listing Available WIM Image Indexes for Servicing...  
=====  
| WIM Index | WIM Arch | WIM Image Index Name  
=====  
| 1 | x64 | Windows 10 Pro  
| 2 | x64 | Windows 10 Home  
=====  
Enter the WIM Image Index's # [Range : 1-2, * - All] : *
```

- The ToolKit Displays the WIM Image Information and Starts Mounting All Windows Installation WIM Image Indexes along with its Windows Installation Boot WIM Image (Indexes: 1 & 2) and Windows Installation Recovery WIM Image (Index 1).

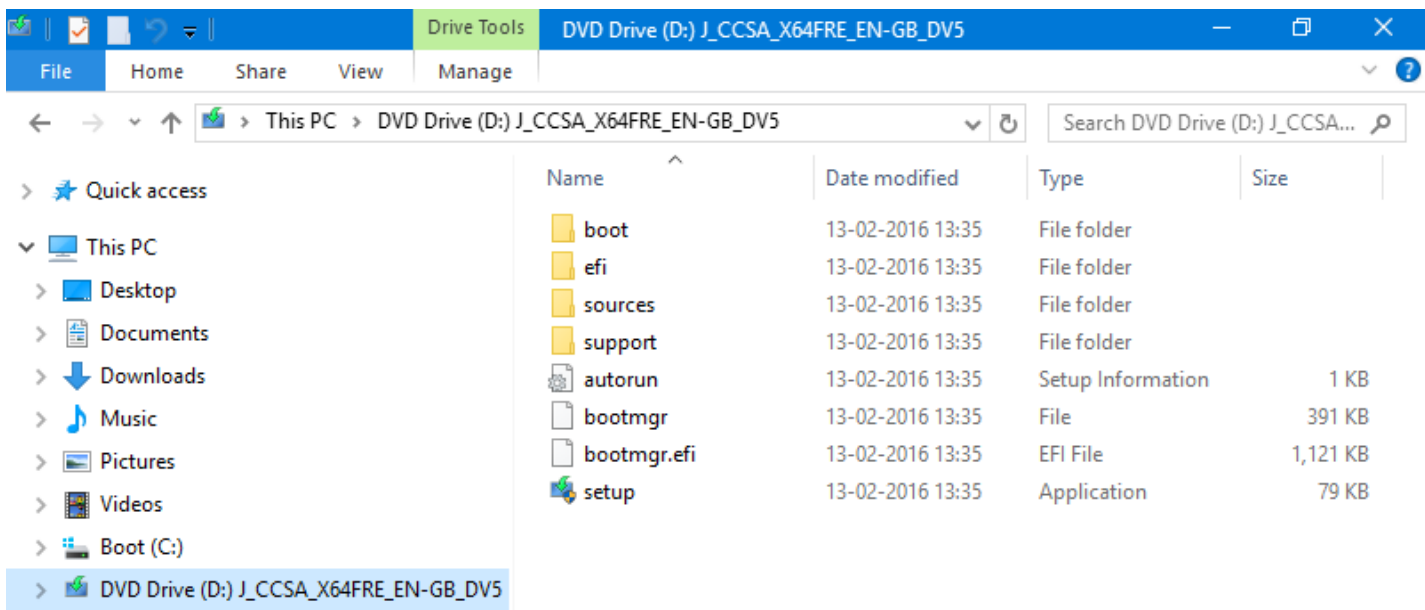

```
Administrator: MSMG ToolKit v4.0
=====
MSMG ToolKit - Select Source from <DVD> Folder
=====
-----
Selecting Source WIM Images
-----
Listing Available WIM Image Indexes for Servicing...
=====
| WIM Index | WIM Arch | WIM Image Index Name
|-----|-----|-----
| 1         | x64      | Windows 10 Pro
| 2         | x64      | Windows 10 Home
|-----|-----|-----
Enter the WIM Image Index's # [Range : 1-2, * - All] : *
-----
-----
Selected Source WIM Image Information
-----
WIM Image           : Install.wim
WIM Image Indexes No : 1-2
WIM Image Architecture : x64
WIM Image Version    : 10.0.10586
WIM Image Service Pack Build : 0
WIM Image Default Language : en-GB
-----
-----
Mounting Source WIM Images
-----
Mounting [Boot.wim, Index : 1] WIM Image at <\Mount\Boot\1>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
Mounting [Boot.wim, Index : 2] WIM Image at <\Mount\Boot\2>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
Mounting [Install.wim, Index : 1] WIM Image at <\Mount\Install\1>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
Mounting [WinRE.wim, Index : 1] WIM Image at <\Mount\WinRE\1>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
Mounting [Install.wim, Index : 2] WIM Image at <\Mount\Install\2>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
Mounting [WinRE.wim, Index : 1] WIM Image at <\Mount\WinRE\2>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Mounting image
[=====100.0%=====]
The operation completed successfully.
-----
-----
Finished Selecting & Mounting Source WIM Images
-----
Press any key to continue . . .
```

■ Press any Key to Continue further.

Copy Source from DVD Drive

This Module allows the user to Copy the Contents of Windows Installation DVD Disc from DVD Drive to Toolkit's Source <DVD> Folder for servicing.

- Insert the Windows Installation DVD Disc into DVD Drive



- Select Source from ToolKit's Main Menu and then Choose Select Copy Source from DVD Drive Menu.

```
Select Administrator: MSMG ToolKit v4.0

=====
MSMG ToolKit - Source Menu
=====

[1]  Select Source from <DVD> Folder
[2]  Copy Source from DVD Drive
[3]  Extract Source from DVD ISO Image
[4]  Extract Source from OEM IMG Image
[5]  Convert Windows Store ESD Image to WIM Image
[6]  Convert Windows ESD Image to WIM Image
[7]  Convert Windows MCT Image to WIM Image
[8]  Convert Source WIM Image to ESD Image
[X]  Go Back

=====
Enter Your Choice :
```

- Enter the DVD Drive Letter in which the Windows Installation DVD Disc has been Inserted and Press Enter Key.

```
Select Administrator: MSMG ToolKit v4.0

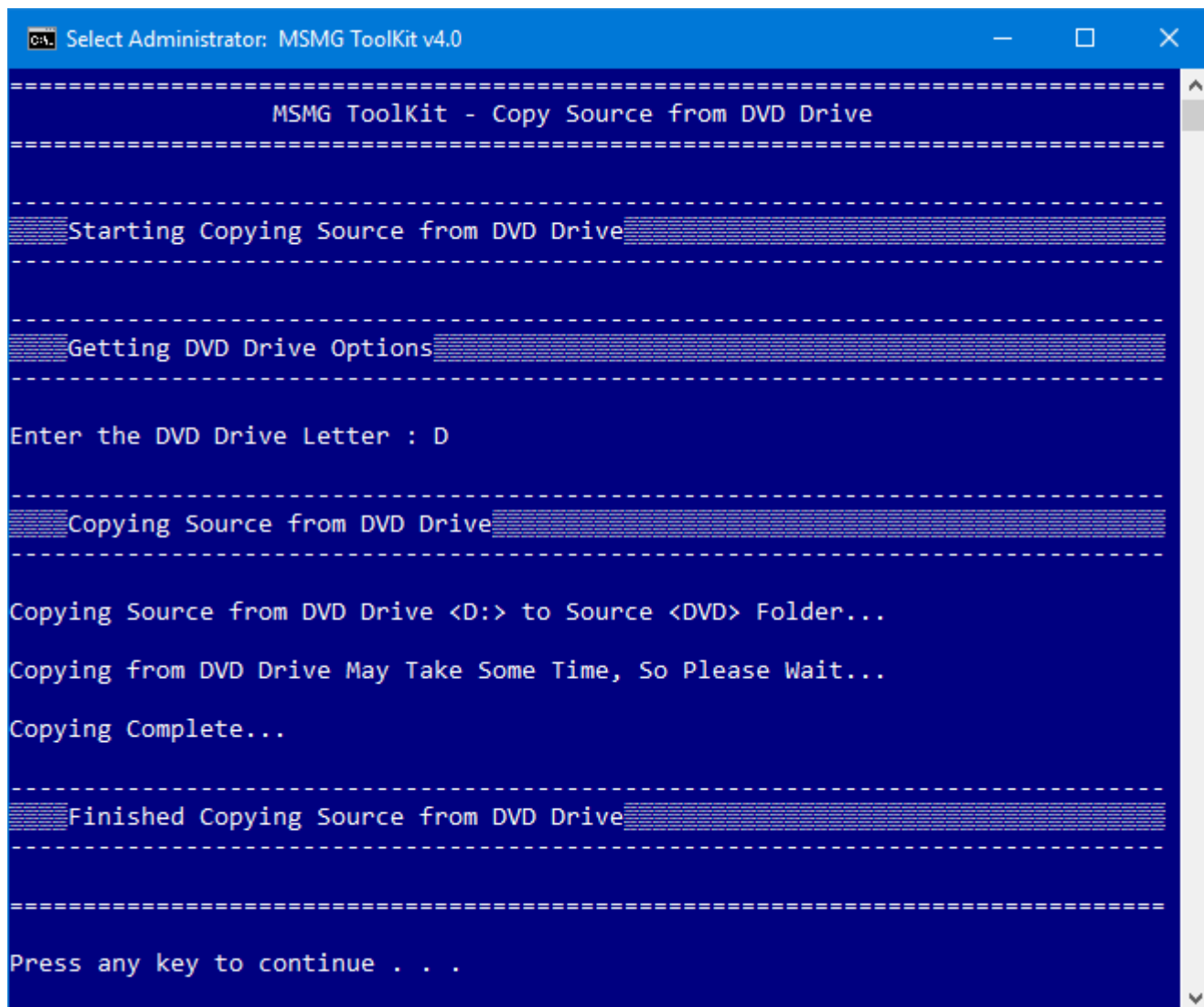
=====
MSMG ToolKit - Copy Source from DVD Drive
=====

Starting Copying Source from DVD Drive
=====

Getting DVD Drive Options
=====

Enter the DVD Drive Letter : D
```

- The Toolkit will start Copying the contents of the Windows Installation DVD Disc present in the DVD Drive Letter specified to the ToolKit's Source <DVD> Folder.



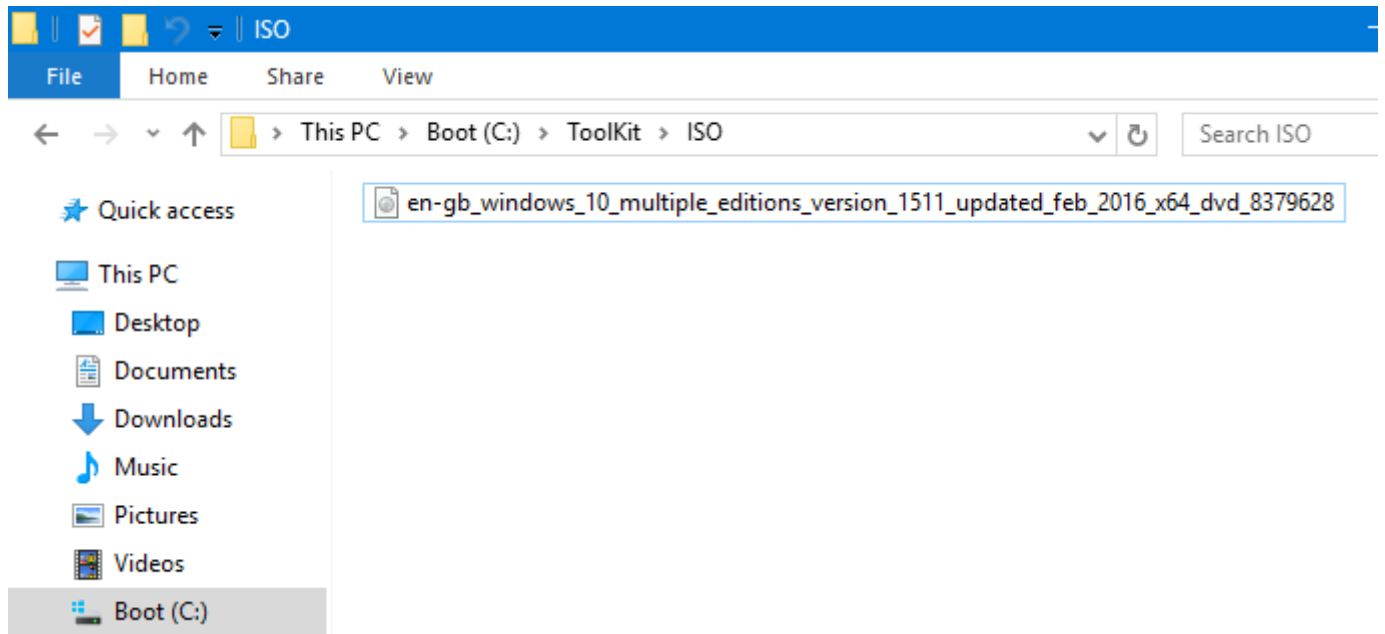
```
Select Administrator: MSMG ToolKit v4.0
=====
MSMG ToolKit - Copy Source from DVD Drive
=====
Starting Copying Source from DVD Drive
=====
Getting DVD Drive Options
=====
Enter the DVD Drive Letter : D
=====
Copying Source from DVD Drive
=====
Copying Source from DVD Drive <D:> to Source <DVD> Folder...
Copying from DVD Drive May Take Some Time, So Please Wait...
Copying Complete...
=====
Finished Copying Source from DVD Drive
=====
Press any key to continue . . .
```

- Press any Key to Continue further.

Extract Source from DVD ISO Image

This Module allows the user to Extract the Contents of Windows Installation DVD ISO Image File to Toolkit's Source <DVD> Folder for servicing.

- Copy the Windows Installation DVD ISO Image File to Toolkit's Target <ISO> Folder.



- Select Source from ToolKit's Main Menu and then Choose Select Extract Source from DVD ISO Image Menu.

```
Select Administrator: MSMG ToolKit v4.0

=====
MSMG ToolKit - Source Menu
=====

[1]  Select Source from <DVD> Folder
[2]  Copy Source from DVD Drive
[3]  Extract Source from DVD ISO Image
[4]  Extract Source from OEM IMG Image
[5]  Convert Windows Store ESD Image to WIM Image
[6]  Convert Windows ESD Image to WIM Image
[7]  Convert Windows MCT Image to WIM Image
[8]  Convert Source WIM Image to ESD Image
[X]  Go Back

=====
Enter Your Choice :
```

- Enter the Windows Installation DVD ISO Image Filename without the '.iso' Extension and Press Enter Key.

```
Select Administrator: MSMG ToolKit v4.0

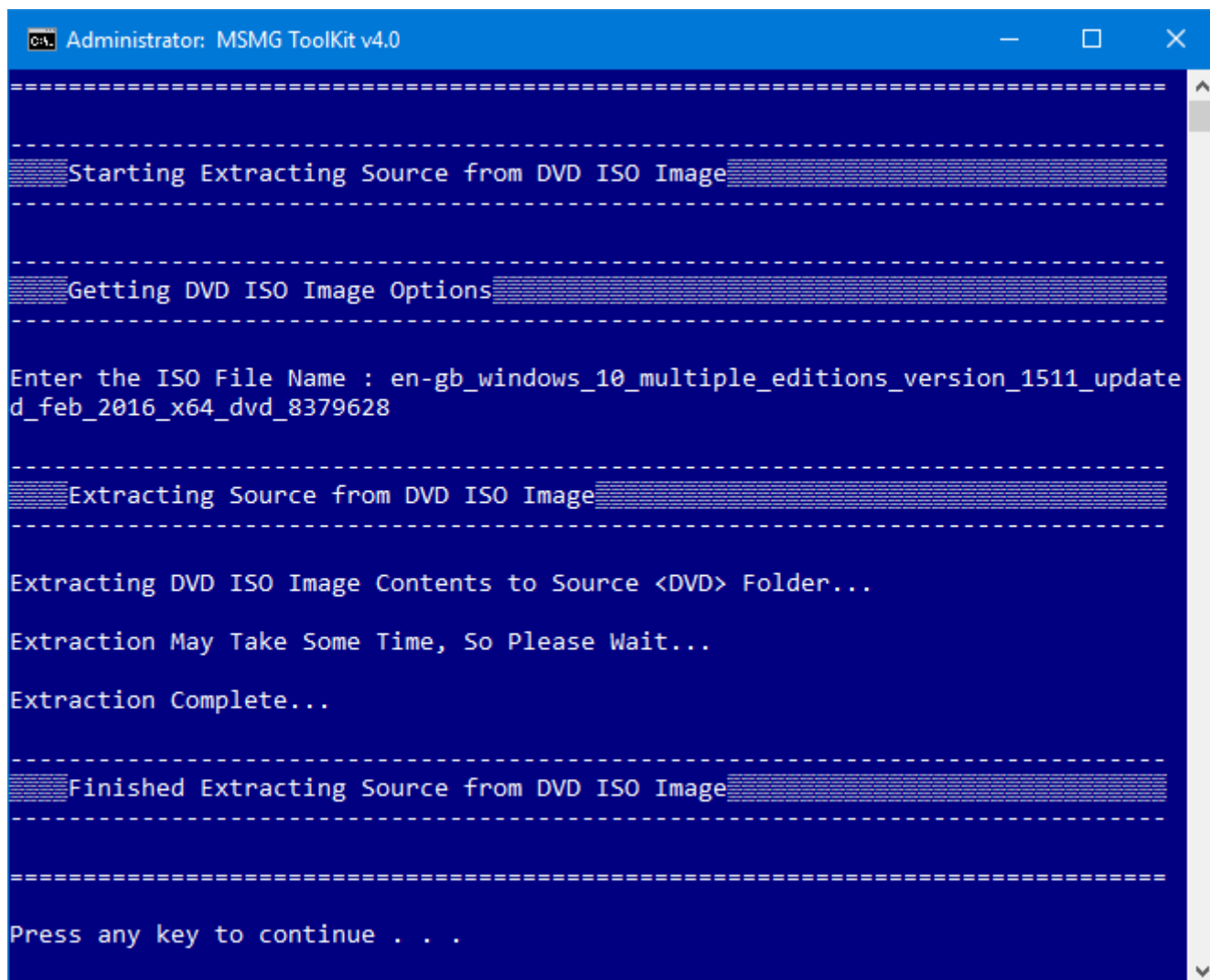
=====
MSMG ToolKit - Extract Source from DVD ISO Image
=====

Starting Extracting Source from DVD ISO Image
=====

Getting DVD ISO Image Options=====

Enter the ISO File Name : en-gb windows 10 multiple editions version 1511 update
d feb 2016 x64 dvd 8379628
```

- The Toolkit will start Extracting the contents of the Windows Installation DVD ISO Image present in the Toolkit's Target <ISO> folder into the Toolkit's Source <DVD> Folder.



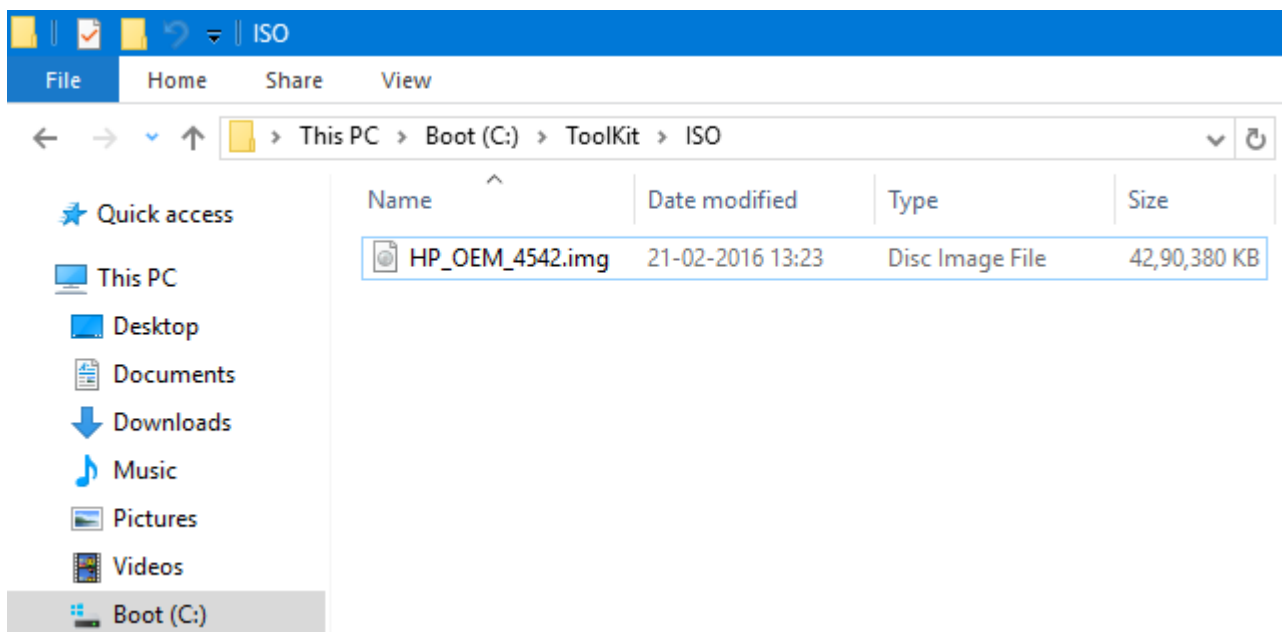
```
Administrator: MSMG ToolKit v4.0
=====
Starting Extracting Source from DVD ISO Image=====
=====
Getting DVD ISO Image Options=====
=====
Enter the ISO File Name : en-gb_windows_10_multiple_editions_version_1511_update
d_feb_2016_x64_dvd_8379628
=====
Extracting Source from DVD ISO Image=====
=====
Extracting DVD ISO Image Contents to Source <DVD> Folder...
Extraction May Take Some Time, So Please Wait...
Extraction Complete...
=====
Finished Extracting Source from DVD ISO Image=====
=====
Press any key to continue . . .
```

- Press any Key to Continue further.

Extract Source from OEM IMG Image

This Module allows the user to Extract the Contents of Microsoft Windows Installation OEM IMG Image File to Toolkit's Source <DVD> Folder for servicing.

- Copy the Microsoft Windows Installation OEM IMG Image File to Toolkit's Target <ISO> Folder.



- Select Source from ToolKit's Main Menu and then Choose Select Extract Source from OEM IMG Image Menu.

```
Select Administrator: MSMG ToolKit v4.0

=====
MSMG ToolKit - Source Menu
=====

[1]  Select Source from <DVD> Folder
[2]  Copy Source from DVD Drive
[3]  Extract Source from DVD ISO Image
[4]  Extract Source from OEM IMG Image
[5]  Convert Windows Store ESD Image to WIM Image
[6]  Convert Windows ESD Image to WIM Image
[7]  Convert Windows MCT Image to WIM Image
[8]  Convert Source WIM Image to ESD Image
[X]  Go Back

=====
Enter Your Choice :
```

- Enter the Microsoft Windows Installation OEM IMG Image Filename without the '.img' Extension and Press Enter Key.

```
Select Administrator: MSMG ToolKit v4.0

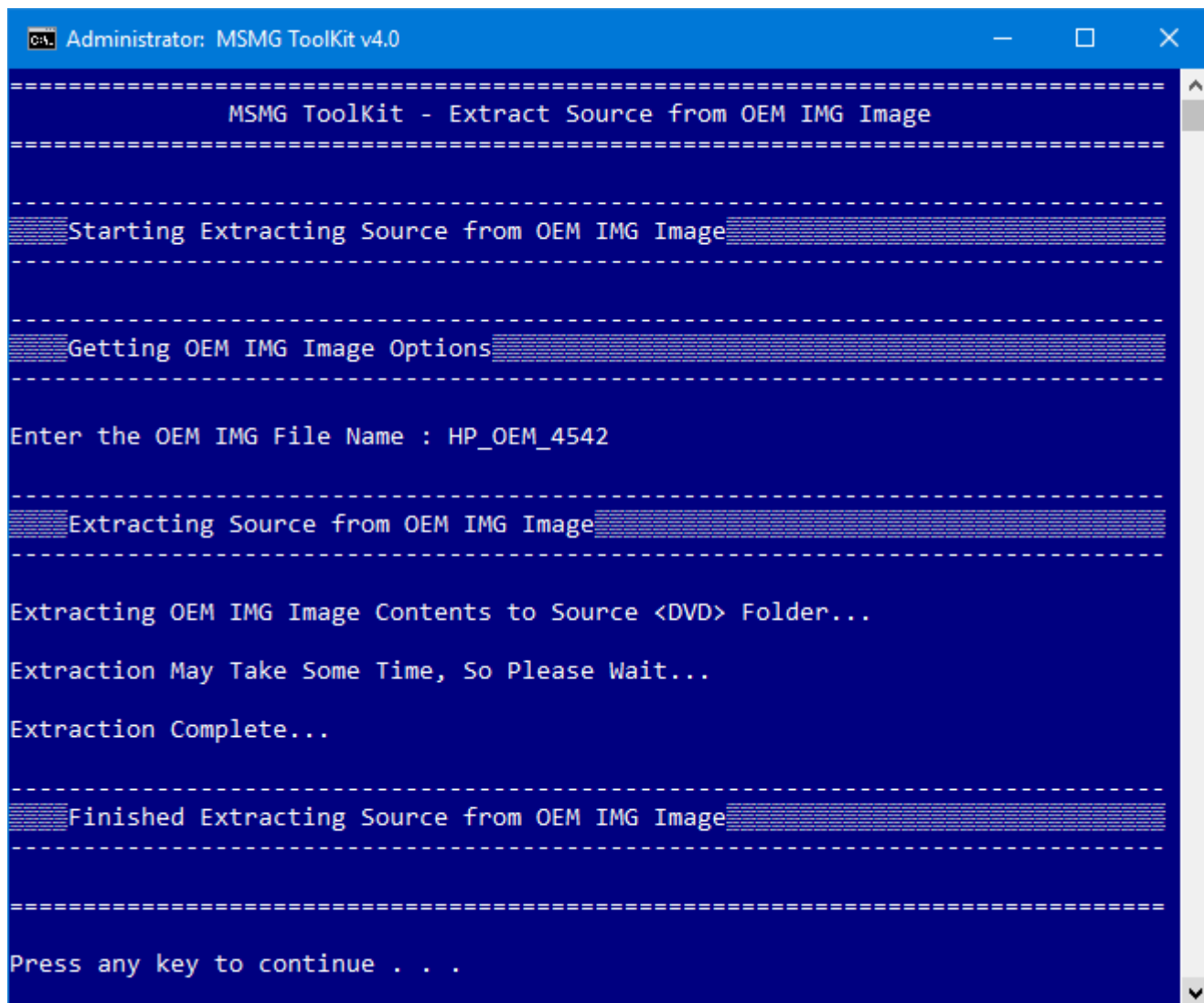
=====
MSMG ToolKit - Extract Source from OEM IMG Image
=====

Starting Extracting Source from OEM IMG Image
=====

Getting OEM IMG Image Options=====

Enter the OEM IMG File Name : HP_OEM_4542
```

- The Toolkit will start Extracting the contents of the Microsoft Windows Installation OEM IMG Image present in the Toolkit's Target <ISO> folder into the Toolkit's Source <DVD> Folder.



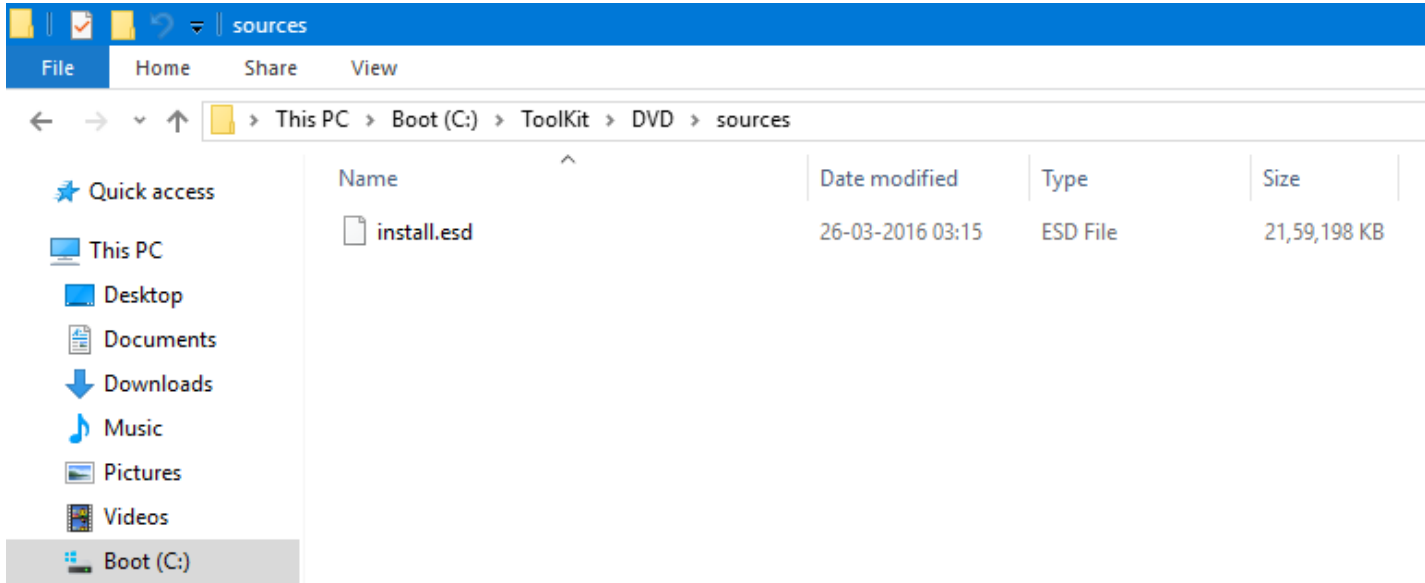
```
Administrator: MSMG ToolKit v4.0
=====
MSMG Toolkit - Extract Source from OEM IMG Image
=====
Starting Extracting Source from OEM IMG Image
-----
Getting OEM IMG Image Options
-----
Enter the OEM IMG File Name : HP_OEM_4542
-----
Extracting Source from OEM IMG Image
-----
Extracting OEM IMG Image Contents to Source <DVD> Folder...
Extraction May Take Some Time, So Please Wait...
Extraction Complete...
-----
Finished Extracting Source from OEM IMG Image
-----
=====
Press any key to continue . . .
```

- Press any Key to Continue further.

Convert Windows Store ESD Image to WIM Image

This Module allows the user to Convert a Windows Store Downloaded ESD Image to WIM Image for servicing.

- Copy the Windows Store ESD Image File (install.esd) to Toolkit's <DVD\sources> Folder.



- Select Source from ToolKit's Main Menu and then Choose Select Convert Windows Store ESD Image to WIM Image Menu.

```
Select Administrator: MSMG ToolKit v4.0

=====
MSMG ToolKit - Source Menu
=====

[1]  Select Source from <DVD> Folder
[2]  Copy Source from DVD Drive
[3]  Extract Source from DVD ISO Image
[4]  Extract Source from OEM IMG Image
[5]  Convert Windows Store ESD Image to WIM Image
[6]  Convert Windows ESD Image to WIM Image
[7]  Convert Windows MCT Image to WIM Image
[8]  Convert Source WIM Image to ESD Image
[X]  Go Back

=====
Enter Your Choice :
```

- The ToolKit will display System Requirement Information for Converting the Windows Store ESD Image Indexes to WIM Image.

```
Select Administrator: MSMG ToolKit v4.0

=====
MSMG ToolKit - Convert Windows Store ESD Image to WIM Image
=====

The Windows Store Updated Installation DVD Contains, Windows Installation
Image In An .ESD Image Format Instead Of An Regular .WIM Image Format.

The Windows Installation .ESD Image Format Cannot Be Serviced Unlike Regular
.WIM Image Format, Due To Its Heavy Compressed Format.

MSMG ToolKit Can Convert The Windows Store Updated Windows Installation .ESD
Image Format to Regular WIM Image Format, So That It Can Be Serviced In the
Same Way As An .WIM Image Format.

The Conversion From A Windows Store Updated Windows Installation .ESD Image
Format to A Regular .WIM Image Format Requires A Lot of CPU Usage, Time and
Free Hard Disk Space.

=====
Do Yo Want to Continue With .ESD to .WIM Image Conversion? [Y'es/'N'o] :
```

- Press 'Y' or 'N' to Continue Further.
- The ToolKit will display the list of Indexes present inside the Windows Store ESD Image and starts Converting the Windows Store ESD Image Indexes to WIM Image.

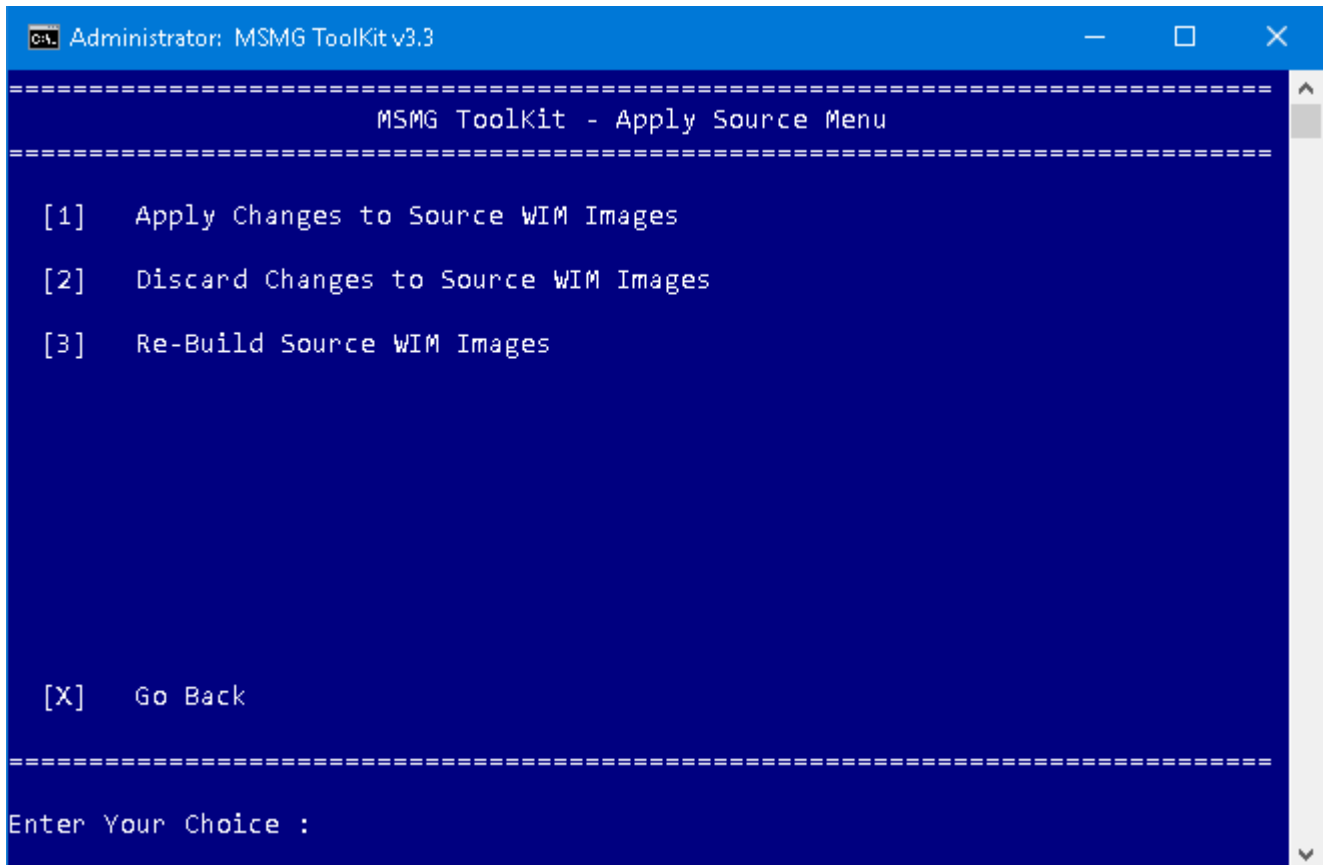
```
Administrator: MSMG ToolKit v4.0
MSMG ToolKit - Convert Windows Store ESD Image to WIM Image
-----
Starting Converting Windows Store ESD Image Format to WIM Image
-----
Getting Windows Store ESD Image File [Install.esd] Information
-----
|Index| Arch | Windows Store ESD Image Index Name
-----
| 1 | - | Windows Setup Media
-----
| 2 | x86 | Microsoft Windows PE (x86)
-----
| 3 | x86 | Microsoft Windows Setup (x86)
-----
| 4 | x86 | Windows 10 Pro Technical Preview
-----
Decrpyting Windows Store ESD Image
-----
Decrpyting Windows Store ESD Image If It's Been Encrypted...
-----
Converting Windows Store ESD Image to WIM Images
-----
Creating a Temporary Boot & Install WIM Images...
-----
Applying Windows Store ESD Image [Install.esd, Index : 1] to <Temp\DVD>...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Applying image
[=====100.0%=====]
The operation completed successfully.
-----
Exporting Windows Store ESD Image [Install.esd, Index : 2] to Boot WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Exporting Windows Store ESD Image [Install.esd, Index : 3] to Boot WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Exporting Windows Store ESD Image [Install.esd, Index : 4] to Install WIM Image
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Copying EI.CFG Config File to Source Folder
-----
Copying "Professional" Edition EI.CFG File to <DVD\sources> Folder...
-----
Finished Converting Windows Store ESD Image to WIM Image
-----
Press any key to continue . . .
```

■ Press any Key to Continue further.

APPLY MODULE

After Servicing a Windows Installation Image, the User needs to Apply the Changes made to the WIM Image and Un-Mount the Windows Installation Image for further Deployment of the OS.

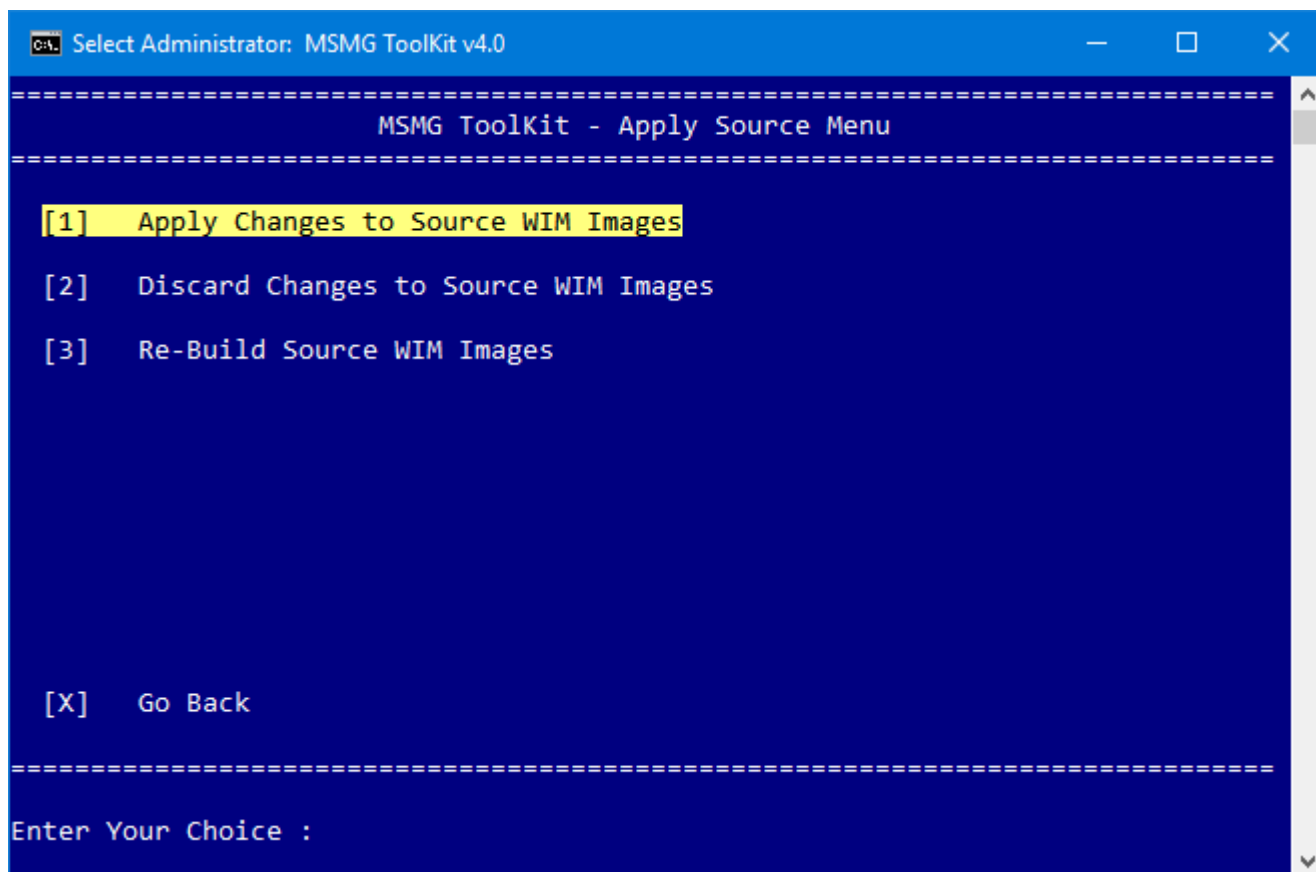
The Apply Module provides three options:



Apply Changes to Source WIM Image

After Servicing a Windows Installation Image, the User needs to Apply the Changes made to the WIM Image and Un-Mount the Windows Installation Image for further Deployment of the OS.

- Select Apply from ToolKit's Main Menu and then Choose Apply Changes to Source WIM Images Menu.



- The ToolKit Will Start Applying the changes made to the Windows Installation Image and Un-Mounts the Mounted Windows Installation Image.

Single Index Mode

```
Administrator: MSMG ToolKit v4.0
=====
MSMG ToolKit - Apply Source
=====
-----
Starting Applying Changes & Un-Mounting Source WIM Images
-----
-----
Applying Changes & Un-Mounting Source [Boot.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [Boot.wim, Index : 2] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 2
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\Mount\Install\Windows\System32\Recovery\winre.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Re-Building Source [WinRE.wim] WIM Image with Maximum Compression...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [Install.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Finished Applying Changes & Un-Mounting Source WIM Images
-----
-----
Press any key to continue . . .
```

Multi Index Mode

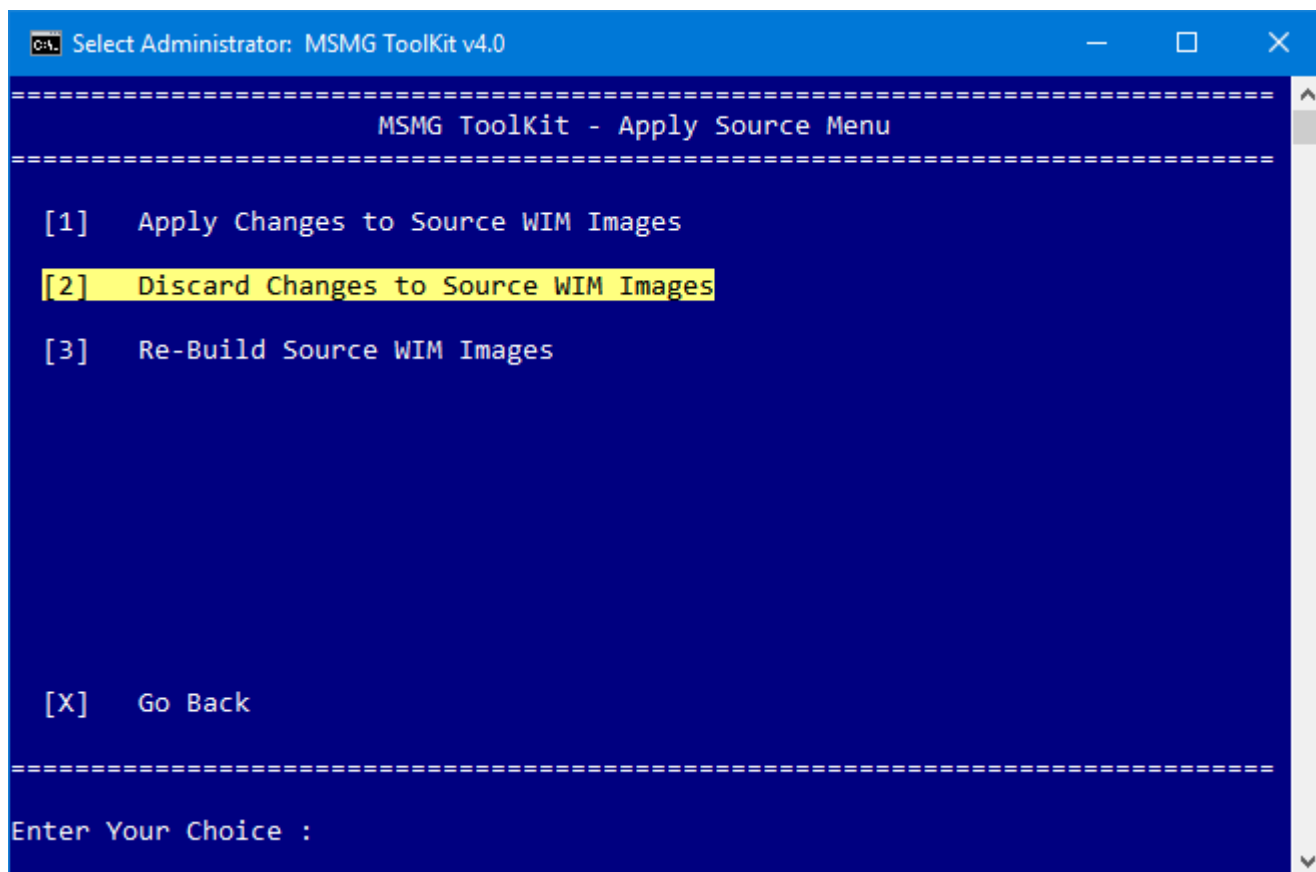
```
Administrator: MSMG ToolKit v4.0
MSMG ToolKit - Apply Source
-----
Starting Applying Changes & Un-Mounting Source WIM Images
-----
Applying Changes & Un-Mounting Source [Boot.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [Boot.wim, Index : 2] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 2
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\Mount\Install\1\Windows\System32\Recovery\winre.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Re-Building Source [WinRE.wim] WIM Image with Maximum Compression...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [Install.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\Mount\Install\2\Windows\System32\Recovery\winre.wim
Image Index : 1
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Re-Building Source [WinRE.wim] WIM Image with Maximum Compression...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Exporting image
[=====100.0%=====]
The operation completed successfully.
-----
Applying Changes & Un-Mounting Source [Install.wim, Index : 2] WIM Image...
-----
Deployment Image Servicing and Management tool
Version: 10.0.10586.0
Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 2
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
-----
Finished Applying Changes & Un-Mounting Source WIM Images
-----
Press any key to continue . . .
```

■ Press Any Key to Continue Further.

Discard Changes to Source WIM Image

This Module allows the User to Discard the Changes made to the Windows Installation Image and Un-Mount the Windows Installation Image.

- Select Apply from ToolKit's Main Menu and then Choose Discard Changes to Source WIM Images Menu.



- The ToolKit Will Start Discarding the changes made to the Windows Installation Image and Un-Mounts the Mounted Windows Installation Image.

Single Index Mode

MSMG ToolKit - Discard Source

Starting Discarding Changes & Un-Mounting Source WIM Images

Un-Mounting Source [Boot.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 1

Unmounting image

[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [Boot.wim, Index : 2] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 2

Unmounting image

[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\Mount\Install\Windows\System32\Recovery\winre.wim
Image Index : 1

Unmounting image

[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [Install.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 1

Unmounting image

[=====100.0%=====]
The operation completed successfully.

Finished Discarding Changes & Un-Mounting Source WIM Images

Press any key to continue . . .

Multi Index Mode

MSMG ToolKit - Discard Source

Starting Discarding Changes & Un-Mounting Source WIM Images

Un-Mounting Source [Boot.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 1
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [Boot.wim, Index : 2] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\boot.wim
Image Index : 2
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\Mount\Install\1\Windows\System32\Recovery\winre.wim
Image Index : 1
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [Install.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 1
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [WinRE.wim, Index : 1] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\Mount\Install\2\Windows\System32\Recovery\winre.wim
Image Index : 1
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Un-Mounting Source [Install.wim, Index : 2] WIM Image...

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Image File : C:\ToolKit\DVD\sources\install.wim
Image Index : 2
Unmounting image
[=====100.0%=====]
The operation completed successfully.

Finished Discarding Changes & Un-Mounting Source WIM Images

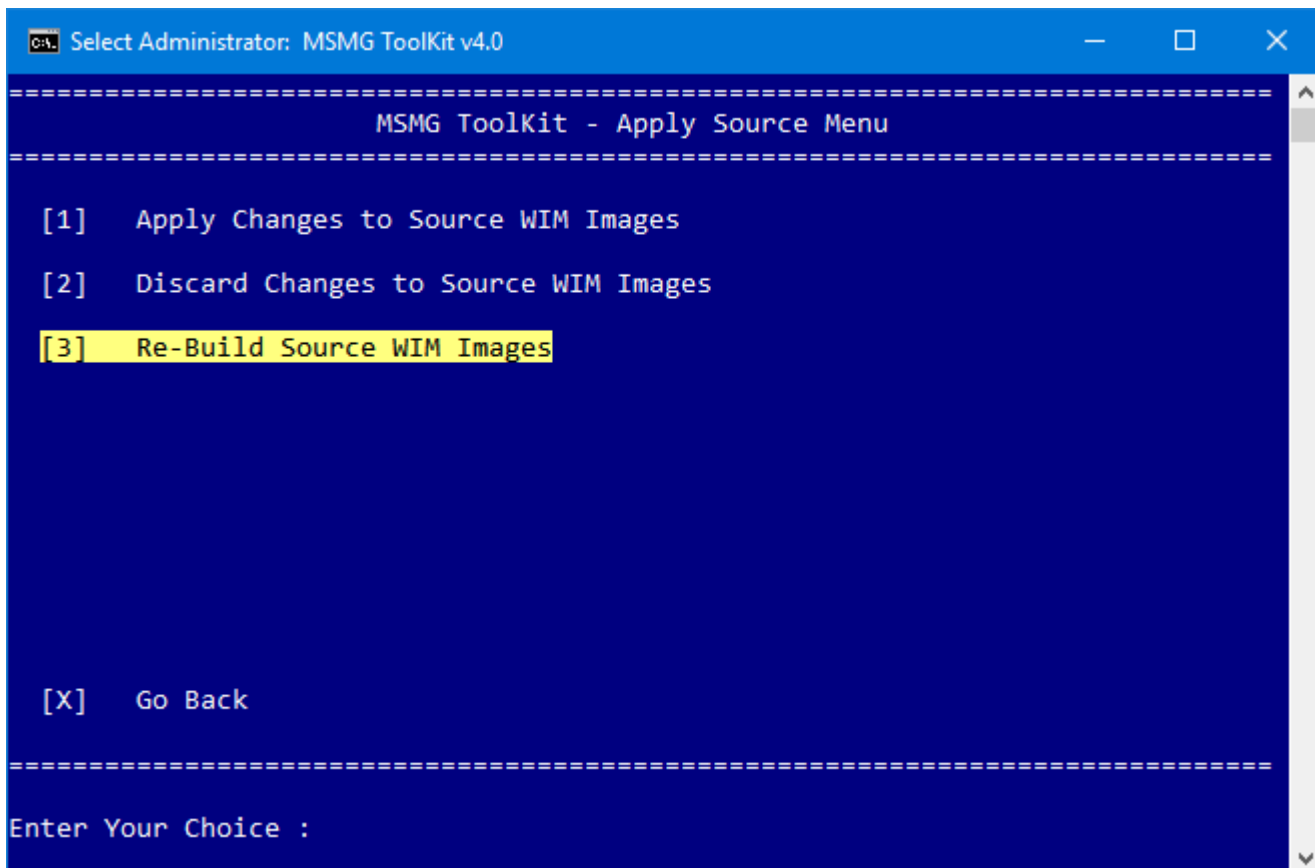
Press any key to continue . . .

■ Press Any Key to Continue Further.

Re-Build Source WIM Image

This Module allows the User to Re-Build the Windows Installation Image to Reduce the WIM Image File Size.

- Select Apply from ToolKit's Main Menu and then Choose Re-Build Source WIM Images Menu.



- The ToolKit Will Start Re-Building the Windows Installation Images along with its Windows Installation Boot WIM Image (Indexes: 1 & 2) and Windows Installation Recovery WIM Image (Index 1).

MSMG ToolKit - Re-Build Source

Starting Re-Building Source WIM Images

Re-Building Source [Boot.wim] WIM Image with Maximum Compression...

[Index : 1]

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Exporting image

[=====100.0%=====]

The operation completed successfully.

[Index : 2]

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Exporting image

[=====100.0%=====]

The operation completed successfully.

Re-Building Source [Install.wim] WIM Image with Maximum Compression...

[Index : 1]

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Exporting image

[=====100.0%=====]

The operation completed successfully.

[Index : 2]

Deployment Image Servicing and Management tool
Version: 10.0.10586.0

Exporting image

[=====100.0%=====]

The operation completed successfully.

Finished Re-Building Source WIM Images

Press any key to continue . . .

■ Press any Key to Continue further.

QUIT MODULE

- Choose 'X' from Main Menu to Quit from ToolKit.
- The ToolKit will perform the Post-Cleanup operation.

```
Administrator: MSMG Toolkit v4.0
=====
MSMG Toolkit - Quit
=====
Performing Post-Cleanup Operation, Please Wait...
Starting Cleaning Up...
Cleaning Up Mount Points...
Cleaning Up Logs Files...
Cleaning Up Temporary Files...
Finished Cleaning Up...
Thanks & Credits to Everyone at MDL...
Quitting MSMG Toolkit...
=====
Press any key to continue . . .
```

- Press Any Key to Continue.